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Bachelor of Engineering Degree Program at the University of Dayton

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university of dayton

**University Relations
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DAYTON, Ohio, June 14, 1974 --- A concerted effort by members of the Dayton industrial community and the Engineering faculty at the University of Dayton has produced an innovative Bachelor of Engineering program tailored for Daytonians who are seeking professional preparation and who are already employed in engineering fields.

The Bachelor of Engineering degree program, known as the "late entry in engineering," is interdisciplinary in nature - consisting of work in mechanical, electrical, and industrial and systems engineering and is adequately supported by courses in math, English, basic sciences, business and philosophy. The program will be initiated in the fall term, September, 1974.

The B.E. degree is unique among Engineering programs in two of its objectives. It will present course material in an innovative format to non-traditional college students.

Students as a result of discussions and seminars with Armco Steel, Delco Moraine, Delco Products, Duriron, Frigidaire, and Inland Manufacturing, the School of Engineering developed the program to meet the needs of several types of students:

- (1) the older, mature individuals who are motivated to upgrade their professional status and at the same time maintain full employment to support their families,
- (2) full time employees who hold a bachelors degree in math or science but due to work assignments require additional education in engineering,
- (3) recent high school graduates who are well motivated but who lack necessary educational background to immediately pursue collegiate programs,
- (4) minority students who are motivated by work experiences or employer urging, but lack adequate preparation for college engineering programs.

The survey of industry showed that these types of students are currently in need of an interdisciplinary engineering program that stresses a personalized system of instruction.

Innovative Approach: In the B.E. program students will benefit from course material presented in innovative ways. Although much material initially will be presented in the conventional lecture-discussion format, as the program develops, audio visual methods of instruction will become an integral part of the program. These methods include video tape, motion pictures, slides, audio tapes and printed material in a programmed format. In addition, plans are being developed to employ the University's computers in an interactive learning process.

Classes will be conducted in the evenings and on Saturdays. Lab sessions will be held one day a week for five weeks.

With the course content presented in a variety of media, students will be able to select the media best suited to their learning styles and proceed at their own pace.

Computer managed instruction will provide students with an evaluation of their progress through the course and it will assist the instructor in counseling his students. Students accepted will be assigned an advisor who will help the students define their educational goals and plans of action.

Admission

Students applying for admission to the program will be required to meet the normal entrance standards of the School of Engineering. However, the Dean may waive the normal admissions requirements for those well motivated but deficient in some areas. As is current practice at UD, entering students with academic weakness begin with a precollegiate program.

Advanced placement is possible for students who

- (1) transfer credits from other institutions,
- (2) receive credit for life experience through advanced level knowledge and skills acquired through experience.
- (3) receive acceptable scores from the College Level Examination Program (CLEP).